# **William Foy**

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<b>Carnegie Mellon University</b>   B.S. in Electrical and Computer Engineering Intended Minor in Software Engineering, QPA: 3.92/4.0		Pittsburgh, PA Expected May 2022
RELEVANT COURSEWORK -		
Software Construction Computer Systems	Data Structures Software Engineering for Startups	Digital Systems Android Development
INDUSTRY EXPERIENCE —		
<ul> <li>Booz Allen Hamilton   Reverse</li> <li>Performed full security analysis</li> <li>Reverse engineering of firmw</li> <li>Automation of custom firmw</li> </ul>	sis on network-attached storage device are update binaries	Fort Meade, MD Summer 2019
Booz Allen Hamilton   Cyberse • Performed security audit on a • Exploited multiple web client	commercial mesh Wi-Fi router	Fort Meade, MD Summer 2018
PROJECTS —		
Dynamic Memory Allocator (No. Written in C with segregated	<b>1alloc)</b> free lists to optimize for memory utilization and th	Pittsburgh, PA nroughput Fall 2019
	botics Institute nance and energy consumption ed UGV control GUI using Python with PyQT	Pittsburgh, PA Fall 2019
Concurrent Web Proxy  • Developed to cache and hand	lle requests concurrently through multithreading i	Pittsburgh, PA in C Fall 2019
·		Aberdeen, MD Fall 2017 - Spring 2018 0
<ul> <li>Developed software for minia</li> </ul>	MIT Beaver Works Summer Institute) ature racecars to navigate an obstacle-filled course computer vision through integration of Python wit	
SKILLS —		
Languages: C/C++ • Java • Bash Tools: React • Git • Unix • LATEX Software: Android Studio • Ghi	• Python • JavaScript • HTML/CSS dra • IDA • ROS	

## **EXTRACURRICULAR ACTIVITIES** -

#### **Scotty Labs**

• Project lead on development of mentor queue system for TartanHacks 2020

### Plaid Parliament of Pwning (PPP) at Carnegie Mellon University

Participation in Capture-the-Flag competitions

#### HONORS